

EINLADUNG ZUM MATHEMATISCHEN KOLLOQUIUM

Es spricht

Prof. Dr. Rudolf Grübel
(Leibniz Universität Hannover)

zum Thema:

„Combinatorial Markov Chains“

Abstract:

We consider Markov chains that are adapted to a combinatorial family in the sense that, at time $n=1,2,\dots$, the state of the chain is an object of size n . These structures are of importance in Discrete Mathematics (what does a typical discrete structure look like?) but also in Theoretical Computer Science where they appear as the output of sequential algorithms with random input.

A central question is the behaviour of such structures as n increases to infinity. It turns out that Markov chain boundary theory provides a useful limit concept; in particular, the stochastic dynamics lead to a very specific augmentation of the respective combinatorial family. In the talk I will outline the theoretical background, and we will then walk through some examples of varying complexity.

**Mittwoch, 30. Mai 2018, 17:00 Uhr, Raum C 113 im Curiebau
(Kaffee 16:30 Uhr im Raum C 325)**

Alle Interessenten sind herzlich eingeladen.

Ilmenau, 03.05.2018

Die Hochschullehrer des Institutes